

PRODUCTION OF HIGH STRENGTH PARTS

Publication number: JP2000129347

Publication date: 2000-05-09

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Applicant: KOBE STEEL LTD

Classification:

- International: C23C8/38; C21D1/06; C21D3/04; C21D6/00; C22C38/00; C22C38/18; C22C38/60; C22C38/00; C22C38/18; C22C38/60; C23C8/06; C21D1/06; C21D3/00; C21D6/00; C22C38/00; C22C38/18; C22C38/60; C22C38/60; C22C38/00; C22C38/18; C22C38/60; (IPC1-7): C22C38/00; C22C38/18; C22C38/60; C21D6/00; C21D1/06; C21D3/04; C21D6/00; C23C8/38

- European:

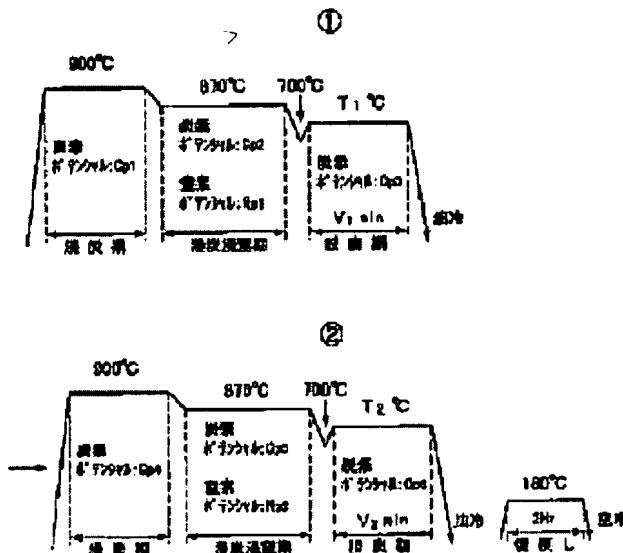
Application number: JP19980297156 19981019

Priority number(s): JP19980297156 19981019

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Abstract of JP2000129347

PROBLEM TO BE SOLVED: To provide a method for efficiently production high strength parts excellent in pitting resistance and bending fatigue resistance. **SOLUTION:** A steel containing by mass % 0.05-0.5% C, <=3% Si (not including 0%), <=2.5% Mn (not including 0%) and 2.5-15% Cr, is used. Then, as a heat treatment process, after executing carburizing and carbonitriding or after executing carbonitriding, immediately or after once cooling to the A1 transformation point or lower, the steel is again heated to the A1 transformation point - 1100 deg.C and the decarburizing treatment is executed to form <=5 μ m the average grain diameter of carbide in the cross section within 0.1 mm from the surface.



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